

CLAIMS

1 1. Apparatus for processing an encrypted data stream within a computer
2 system adapted to receive the encrypted data stream from a data storage device,
3 the apparatus comprising: a data output device coupled to said computer system
4 and having a plurality of data output areas;

5 means for transferring said encrypted data stream from said data storage
6 device to said data output device, said encrypted data stream being for output
7 to one of said plurality of data output areas; and

8 decryption means associated with said data output device for receiving
9 said encrypted data stream and for decrypting said encrypted data stream to
10 produce a clear data stream for output to one of said plurality of data output
11 areas, wherein said decryption means receives a decryption key from said
12 computer system, said decryption key relating only to said encrypted data
13 stream associated with said one of said plurality of data output areas.

1 2. Apparatus according to claim 1 wherein said decryption key is
2 transmitted during an interval between transmission of successive images to
3 said data output device and is protected by a suitable secure code.

1 3. Apparatus according to claim 1 wherein said decryption key is transmitted
2 during an interval between transmission of successive lines of each
3 image to said data output device and is protected by a suitable secure code.

1 4. Apparatus according to claim 1 wherein:
2 data associated with the one of said plurality of data output areas is not
3 output if the decryption key associated with the one of said plurality of data output
4 areas is not received; and
5 data associated with others of said plurality of data output areas is output
6 independent of the receipt or non-receipt of the decryption key associated with the
one of said plurality of data output areas.

5. Apparatus according to claim 4 wherein said data output device is a
computer display and said data output areas are windows displayed on the
display.

6. Apparatus according to claim 4 wherein data associated with one of said
others of said plurality of data output areas is an encrypted data stream having
a decryption key that differs from the decryption key associated with the encrypted
data associated with the one of said plurality of data output areas.

1 7. Apparatus according to claim 4 wherein data associated with others of said
2 plurality of data output areas is an unencrypted data stream having no decryption
3 key.

1 8. Apparatus according to claim 4 wherein said decryption key contains an
2 indication of the number of data output areas associated with the data output
3 device which output encrypted data.

1 9. Apparatus according to claim 4 wherein said decryption key contains an
2 indication of the relative location of said data output area where said clear data
3 stream is to be displayed.

1 10. Apparatus according to claim 4 wherein said decryption key contains an
2 indication of the size of said data output area where said clear data stream is to
3 be displayed.

1 11. Apparatus according to claim 4 wherein said data storage device is a DVD
2 storage device.

1 12. Apparatus according to claim 11 wherein said encrypted data stream is a
2 video data stream and said decryption means comprises an MPEG video decoder.

1 13. A method for processing an encrypted data stream within a computer
2 system comprising the steps of:

3 receiving an encrypted data stream from a data storage device;
4 transferring said encrypted data stream from said data storage device to
5 a data output device having a plurality of data output areas, said encrypted data
6 stream being for output to one of said plurality of data output areas;

7 receiving a decryption key in said data output device, said decryption key
8 relating only to said encrypted data stream associated with said one of said
9 plurality of data output areas; and

10 decrypting, in said data output device, said encrypted data stream to
11 produce a clear data stream for output to one of said plurality of data output
12 areas.

1 14. A method according to claim 13 wherein said decryption key is received
2 during an interval between transmission of successive images to said data output
3 device and is protected by a suitable secure code.

1 15. A method according to claim 13 wherein said decryption key is received
2 during an interval between transmission of successive lines of each image to said
3 data output device and is protected by a suitable secure code.

1 16. A method according to claim 13 wherein:
2 data associated with the one of said plurality of data output areas is not
3 output if the decryption key associated with the one of said plurality of data output
4 areas is not received; and
5 data associated with others of said plurality of data output areas is output
6 independent of the receipt or non-receipt of the decryption key associated with the
7 one of said plurality of data output areas.

1 17. A method according to claim 16 wherein said data output device is a
2 computer display and said data output areas are windows displayed on the
3 display.

1 18. Apparatus according to claim 16 wherein data associated with one of said
2 others of said plurality of data output areas is an encrypted data stream having
3 a decryption key that differs from the decryption key associated with the encrypted
data associated with the one of said plurality of data output areas.

1 19. A method according to claim 16 wherein data associated with others of said
2 plurality of data output areas is an unencrypted data stream having no decryption
3 key.

1 20. A method according to claim 16 wherein said decryption key contains an
2 indication of the number of data output areas associated with the data output
3 device which output encrypted data.

1 21. A method according to claim 16 wherein said decryption key contains an
2 indication of the relative location of said data output area where said clear data
3 stream is to be displayed.

1 22. A method according to claim 16 wherein said decryption key contains an
2 indication of the size of said data output area where said clear data stream is to
3 be displayed.

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